

Title (en)
MAP BASED BEACON MANAGEMENT

Title (de)
KARTENBASIERTE BAKENVERWALTUNG

Title (fr)
GESTION DE BALISES À L'AIDE D'UNE CARTE

Publication
EP 3289374 A4 20181114 (EN)

Application
EP 16789894 A 20160502

Priority
• US 201562155889 P 20150501
• US 2016030424 W 20160502

Abstract (en)
[origin: US2016323708A1] Once a proximity beacon is installed within a venue, mobile devices receive signals transmitted by the proximity beacon. These mobile devices then report their own locations to an application server. These mobile devices also report a signal strength to the application server, the signal strength associated with the signal from the proximity beacon. The application server determines the location of the proximity beacon by triangulating based on the locations of the mobile devices and on the signal strengths from the mobile devices. The location of the proximity beacon is then transmitted to a front-end device that then displays the location of the proximity beacon on a map along with other locations of other proximity beacons. The map may also display range areas and battery levels of the proximity beacon, and any other data that can be gathered by the application server from the mobile devices or the proximity beacon.

IPC 8 full level
G01S 1/02 (2010.01); **G01S 5/14** (2006.01); **H04W 4/00** (2018.01); **H04W 4/02** (2018.01); **H04W 64/00** (2009.01); **H04W 88/00** (2009.01); **H04W 88/02** (2009.01); **H04W 88/04** (2009.01)

CPC (source: EP US)
G01S 1/02 (2013.01 - EP US); **G01S 5/14** (2013.01 - EP US); **H04W 4/023** (2013.01 - EP US); **H04W 64/003** (2013.01 - US)

Citation (search report)
• [Y] US 2012182933 A1 20120719 - BANDHAKAVI SINDHURA [US], et al
• [Y] EP 2650692 A1 20131016 - NINTENDO CO LTD [JP]
• See references of WO 2016179098A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2016323708 A1 20161103; US 9906909 B2 20180227; EP 3289374 A1 20180307; EP 3289374 A4 20181114; EP 3289374 B1 20201104; US 10149103 B2 20181204; US 2018192248 A1 20180705; WO 2016179098 A1 20161110

DOCDB simple family (application)
US 201615144359 A 20160502; EP 16789894 A 20160502; US 2016030424 W 20160502; US 201815906285 A 20180227